Goals of ReWaM

> **KNOWLEDGE FOUNDATIONS**
Advance understanding of water systems and of how they react to change processes in nature and society

> **INFORMATION FOUNDATIONS**
Develop, implement and validate innovative tools for water resource managers and institutions

> **DECISION-MAKING FOUNDATIONS**
Establish novel concepts for planning and implementing sustainable water resources management

Networking and Transfer

Research alone is not enough to establish a successful sustainability policy. Results need to be translated and communicated as application-oriented solutions for society, industry and water management practitioners. Therefore the funding measure ReWaM is flanked by the networking- and transfer project ReWaMnet. In ReWaM the joint projects, and especially the subprojects, overlap in numerous areas: Partners from different joint projects work on similar topics, use comparable methods or ask nearly the same scientific questions. In order to exploit existing synergies to their full potential, ReWaMnet brings the partners together and organises workshops and working sessions.

ReWaMnet is also responsible for presenting the funding measure to the general public and for strengthening the joint projects' collaboration. The networking and transfer project is headquartered at the German Federal Institute of Hydrology (BfG).

NETWORKING AND TRANSFER PROJECT
ReWaMnet

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Regional Water Resources Management for Sustainable Protection of Waters in Germany

SPONSORED BY THE
Federal Ministry of Education and Research
FONA Sustainable Water Management BMBF

BMBF funding measure ReWaM

REGIONAL ANSWERS TO GLOBAL CHALLENGES

Growing cities, changes in land use, pollution, and the effects of climate change: In many regions of the world, measures urgently need to be taken to safeguard the quality, availability and long-term protection of surface- and groundwater resources. This is why one of Germany's most pressing challenges in the coming years will be the sustainable management of water resources, while factoring in ongoing developments in nature and society.

Against this backdrop, the German Federal Ministry of Education and Research (BMBF) has launched the funding measure "Regional Water Resources Management for Sustainable Protection of Waters in Germany" (ReWaM). The BMBF sponsors 15 joint projects and an associated networking- and transfer project. The funding period ends in 2018 respectively 2019. ReWaM is part of the BMBF funding priority "Sustainable Water Management" (NaWaM) within the framework programme "Research for Sustainable Development" (FONA3).

In ReWaM, science, industry and the public sphere are jointly developing innovative knowledge-, information- and decision-making foundations for a regional water resources management system in Germany. All ReWaM projects are transdisciplinary. In all the joint projects, the scientific and water management communities cooperate closely to ensure that the results can be practically applied and that research and development work aligns with the needs of users. The joint projects cover a wide range of topics with different research approaches. The projects are organised into four project clusters which illustrate their joint fields of activity.

ReWaM Projects

DEVELOPMENT AND MANAGEMENT OF WATER BODIES

> **In_StröHmunG** – Innovative systems solutions for transdisciplinary and regional ecological flood risk management and natural watercourse development
Univ.-Prof. Dr.-Ing. Jürgen Stamm, TU Dresden
www.in-stroehmung.de

> **KOGGE** – Mutual development of municipal water bodies in urban areas
Prof. Dr. Jens Tränckner, Universität Rostock
www.kogge.auf.uni-rostock.de

> **NiddaMan** – Development of a sustainable water resources management using the example of the Nidda catchment
Prof. Dr. Jörg Oehlmann, Goethe-Universität Frankfurt
www.niddaman.de

> **StucK** – Safeguarding drainage in coastal urban areas while factoring in climate change
Prof. Dr. rer. nat. Gabriele Gönnert, LSBG Hamburg
www.stuck-hh.de

> **WaSiG** – Water balance in urban areas: planning tools and management concepts
Prof. Dr.-Ing. Mathias Uhl, FH Münster | www.fh-muenster.de/forschungskooperationen/wasig/index.php

WATER MONITORING

> **BOOT-Monitoring** – Boat-based measurement system to map the longitudinal morphometry, water quality and hydrology profiles of rivers as part of an integrated river monitoring system | Prof. Dr. Peter Krebs, TU Dresden
www.boot-monitoring.de

> **HyMoBioStrategie** – Impact of the hydromorphological changes of lakeshores (Lake Constance) on the sediment budget, submerged macrophytes and macro-invertebrate communities with the goal of optimising mitigation strategies | Dr. Hilmar Hofmann, Universität Konstanz
www.hymobiostrategie.de

> **RiverView** – River status monitoring and management
Dr.-Ing. Friedrich-Wilhelm Bolle, FIW e.V.
www.river-view.de

ASSESSMENT METHODS FOR AQUATIC ECOSYSTEMS

> **GroundCare** – Parameterisation and quantification of ecosystem services as a basis for sustainable groundwater management
Dr. Christian Griebler, Helmholtz Zentrum München
www.helmholtz-muenchen.de/igoe/forschung/drittmittel-projekte/groundcare/index.html

> **RESI** – River Ecosystem Service Index
PD Dr. Martin Pusch, IGB | www.igb-berlin.de/resi.html

WATER QUALITY MANAGEMENT

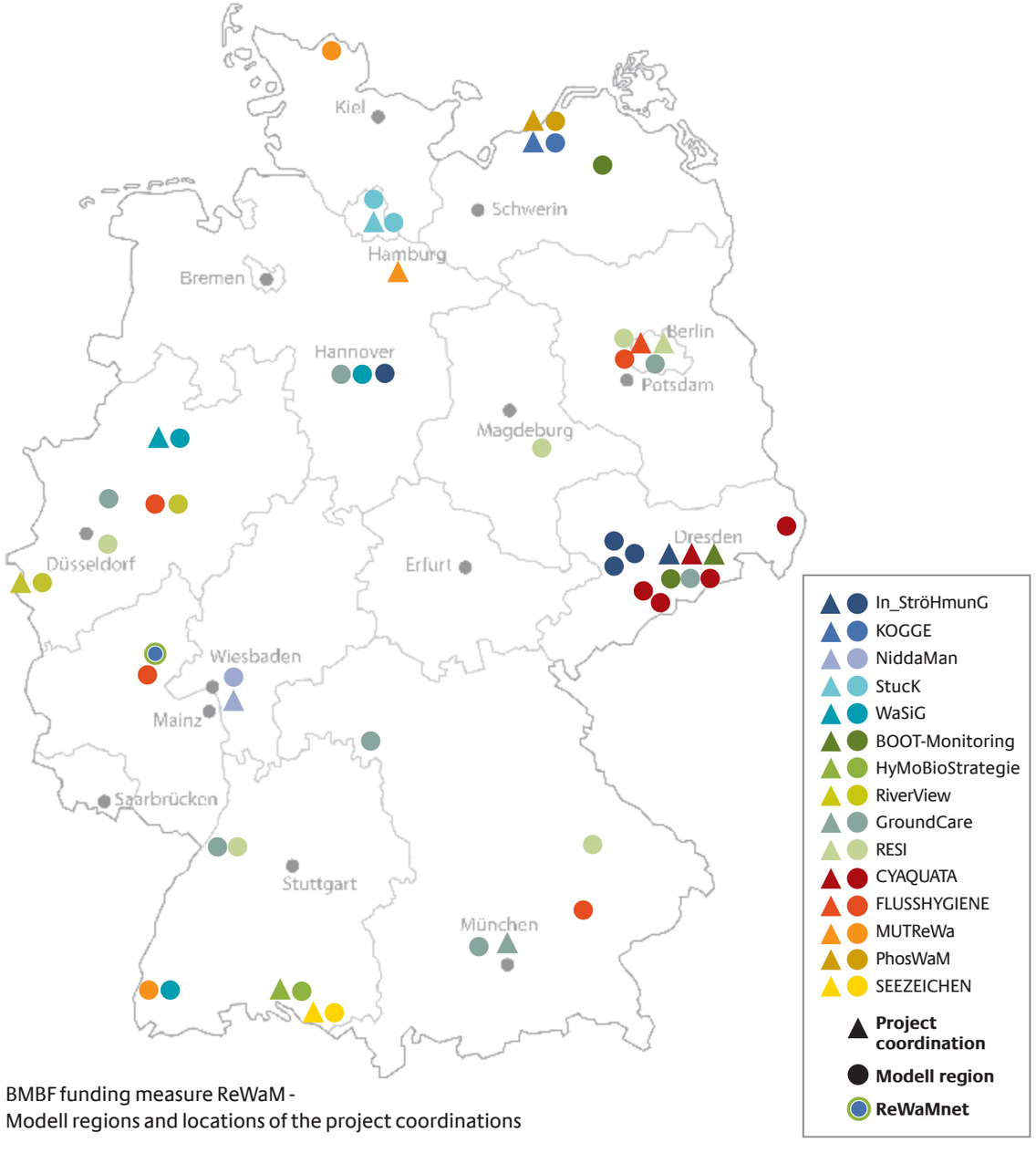
> **CYAQUATA** – Study of the interrelation between toxin-producing cyanobacteria and water quality in reservoirs and development of a sustainable management strategy
Prof. Dr. Eckhard Worch, TU Dresden | www.tu-dresden.de/hydro/cyaquata

> **FLUSSHYGIENE** – Hygienically relevant microorganisms and pathogens in multi-functional rivers and water cycles – sustainable management of different types of rivers in Germany
Dr. Pascale Rouault, Kompetenzzentrum Wasser Berlin | www.kompetenz-wasser.de/FLUSSHYGIENE.592.0.html?&L=e0

> **MUTReWa** – Measures for a more sustainable management of pesticides and their transformation products in regional water management
Prof. Dr. Klaus Kümmerer, Leuphana Universität Lüneburg
www2.leuphana.de/mutrewa

> **PhosWaM** – Phosphorus from source to sea – Integrated phosphorus and water resources management for sustainable water protection
Dr. Inga Krämer, IOW | www.io-warnemuende.de/projekt/142/phoswam.html

> **SEEZEICHEN** – Tracer methods to identify groundwater- and inflow stratification and its impact on water quality and drinking water production
Dr. Thomas Wolf, LUBW | www.seezeichen-bodensee.de



BMBF funding measure ReWaM -
Modell regions and locations of the project coordinations